1.	Record Nr.	UNINA9910299785803321
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	Titolo	Spectral Theory and Applications of Linear Operators and Block Operator Matrices / / by Aref Jeribi
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
	ISBN	3-319-17566-1
	Edizione	[1st ed. 2015.]
	Descrizione fisica	1 online resource (608 p.)
	Disciplina	510
	Soggetti	Mathematical physics Operator theory Mathematical Physics Operator Theory
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Introduction -- Fredholm Operators and Riesz Theory -- Abstract Cauchy Problem -- Fredholm Theory Related to Some Measures -- Pertubation Results -- Essential Spectra of Linear Operators -- Essentia Pseudo-spectra -- S-Essential Spectra -- Essential Spectra of 2 X 2 Block Operator Matrices -- Essential Spectra of 3 X 3 Block Operator Matrices -- Applications in Mathematical Physics and Biology. .
	Sommario/riassunto	Examining recent mathematical developments in the study of Fredholm operators, spectral theory and block operator matrices, with a rigorous treatment of classical Riesz theory of polynomially compact operators, this volume covers both abstract and applied developments in the study of spectral theory. These topics are intimately related to the stability of underlying physical systems and play a crucial role in many branches of mathematics as well as numerous interdisciplinary applications. By studying classical Riesz theory of polynomially compact operators in order to establish the existence results of the second kind operator equations, this volume will assist the reader working to describe the spectrum, multiplicities and localization of the eigenvalues of polynomially compact operators.